

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
)  
Kouichi ICHIMURA et al. )  
) Group Art Unit:  
Application No.: Not Yet Assigned )  
) Examiner: \_\_\_\_\_  
Filed: February 5, 2004 )  
)  
For: QUANTUM MEMORY AND )  
INFORMATION PROCESSING )  
METHOD USING THE SAME )

**MAIL STOP PATENT APPLICATION**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§1.56 and 1.97(b), applicants bring to the Examiner's attention the documents listed on attached Form PTO-1449. Copies of listed non-U.S. patent documents are attached. Applicants respectfully request that the Examiner consider the documents listed on attached Form PTO-1449 and indicate that they were considered by making an appropriate notation on this form.

This Information Disclosure Statement is being filed with the above-referenced application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: February 5, 2004

By: 

Richard V. Burgujian  
Reg. No. 31,744

Enclosures  
RVB/FPD/gah

ERNEST F. CHAPMAN  
Reg. No. 25,961

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	04329.3240	Application No.	
Applicant	Kouichi ICHIMURA et al.		
Filing Date	February 5, 2004	Group:	

## U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,898,720	04/27/1999	Yamamoto et al.			
	5,699,374	12/16/1997	Ichimura et al.			

## FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Duan et al.; "QUANTUM COMMUNICATION BETWEEN ATOMIC ENSEMBLES USING COHERENT LIGHT"; The American Physical Society, Physical Review Letters, Vol. 85, No. 26, pages 5643-5646, (2002)
	Julsgaard et al.; "EXPERIMENTAL LONG-LIVED ENTANGLEMENT OF TWA MACROSCOPIC OBJECTS"; Nature, Vol. 413, No. 27, pages 400-403, (2001)

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce